

213 2.4067 CARMAN

RECEIVED

AUG 1 01981

010

MINING LANDS SECTION

Report on Overburden Drilling

Carman Bay Claim Group

Night Hawk Lake Area

Porcupine Mining Division, Ontario

July 29th, 1981 Timmins, Ontario D.R. Pyke, Ph.D.

PORCUPINE MINING DIVISION

DEGETYE

AUG 0 6 1921

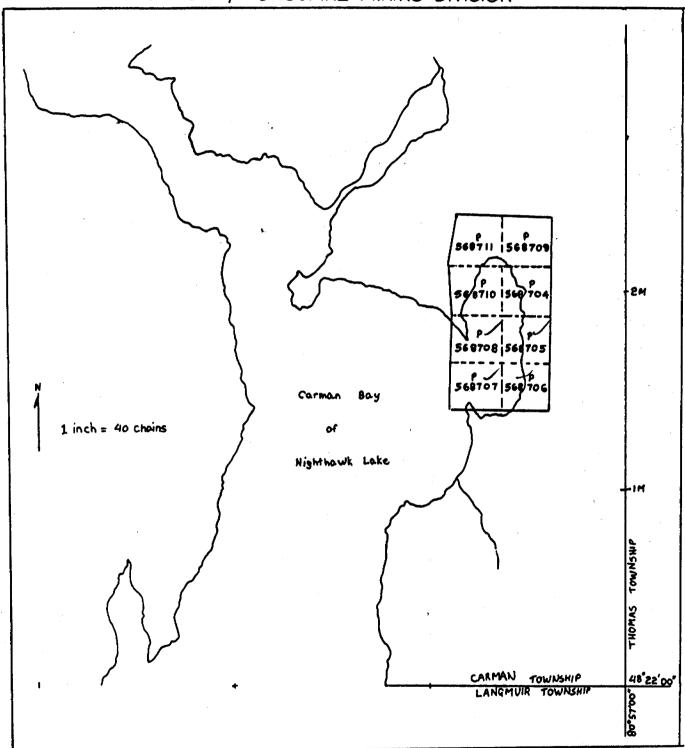
AUG 0 6 1921

AM

7/8/9/10/11/12/1/2/3/4/5/8

LOCATION OF CARMAN BAY CLAIM GROUP, (NH-4) CARMAN TOWNSHIP, PORCUPINE MINING DIVISION

である。 「「「「「「「」」」」では、「「」」」では、「「」」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、



Introduction

During the period March 27 - 30, 1981, W.O. Karvinen and Associates Ltd., was contracted to carry out portable percussion overburden drilling on the Carman Bay Claim Group in the Night Hawk Lake area. During the contract period, excluding March 29, 1981, they drilled the 12 holes included in this report, for a total of 829 feet.

Equipment and Methodology

The equipment used consists of a portable gasoline Cobra plugger, 25 mm. thick rods, a mechanical two-lever jack for pulling rods and a flow-through type sampler with a serrated cutting edge. A double track Ski-Doo Alpine equipped with a sleigh is used as a carrier.

In a new area, normal procedure by the two man crew is to put down a few test holes to determine if suitable lodgement till is present and if the overburden can be penetrated. If these tests are positive, normal drilling along lines across ice direction is carried out.

The main objective is to hit bedrock and to sample both it and the glacial sediments immediately overlying bedrock. From past experience in the Timmins area, there is a widespread distribution of lodgement and modified tills overlying bedrock, although in places it is completely eroded and replaced by glaciofluvial (sand, silt) or glaciolacustrine (clays, silts) deposits. Very little is known about the detailed glacial history of northeastern Ontario and therefore other till sheets

higher in the section may exist or till deposits overlying bedrock may vary in age and origins from area to area. Because of these uncertainties, some of the interpretation of results may be difficult, but again from past experience, a relatively simple geochemical picture usually emerges, provided the tills are properly identified during sampling and separated from other glacial sediments.

Glacial Sediments, Night Hawk Lake Area

Although only a few profiled holes were done, it appears that the stratigraphic section in the Night Hawk Lake area consists of a basal unit of tills overlain by a relatively thick (10 to 100 feet) sequence of varved clays covered by a relatively thin veneer of till (ablation?). Locally the tills are absent and are replaced by sands or silts. These areas probably represent erosion channels.

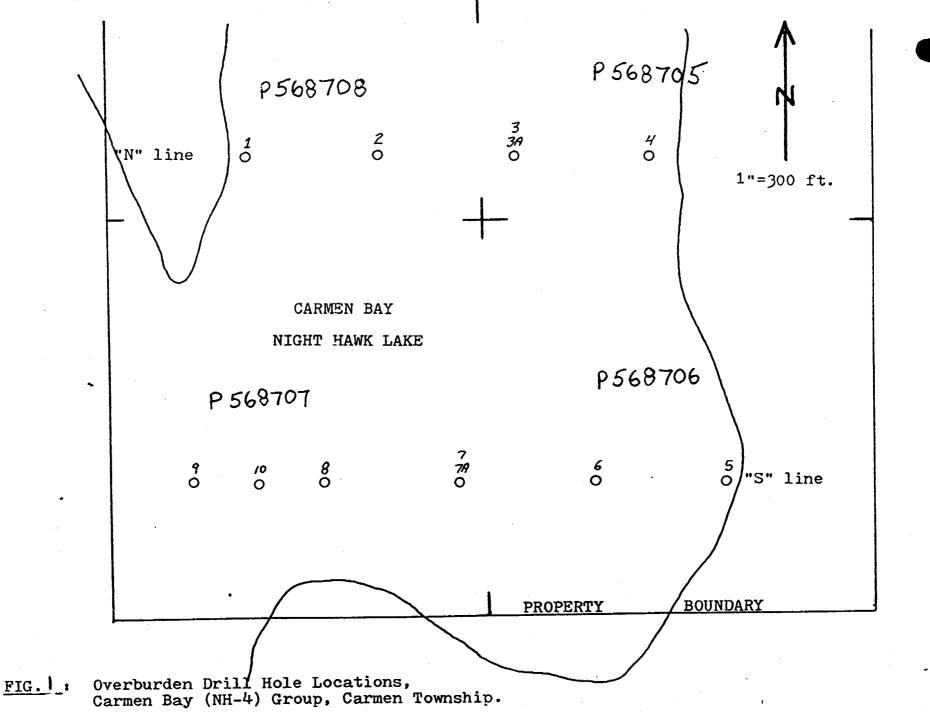
Lodgement till in the area consists of very compact, light to dark gray rock debris which is "pasted" onto the bedrock surface. It comprises a wide spectrum of clast sizes, most of which are locally derived. Armoured clasts and mold and cast features are common. Lodgement till best reflects the chemical composition of bedrock in the immediate up-ice area.

Modified till is compositionally similar to lodgement till but is not compact. Mold and cast features are absent and armoured clasts are few. It appears to be till that has been slightly modified by frost action and/or fluidization. Although modified, it still reflects accurately the chemical make-up of its nearby bedrock source up-ice.

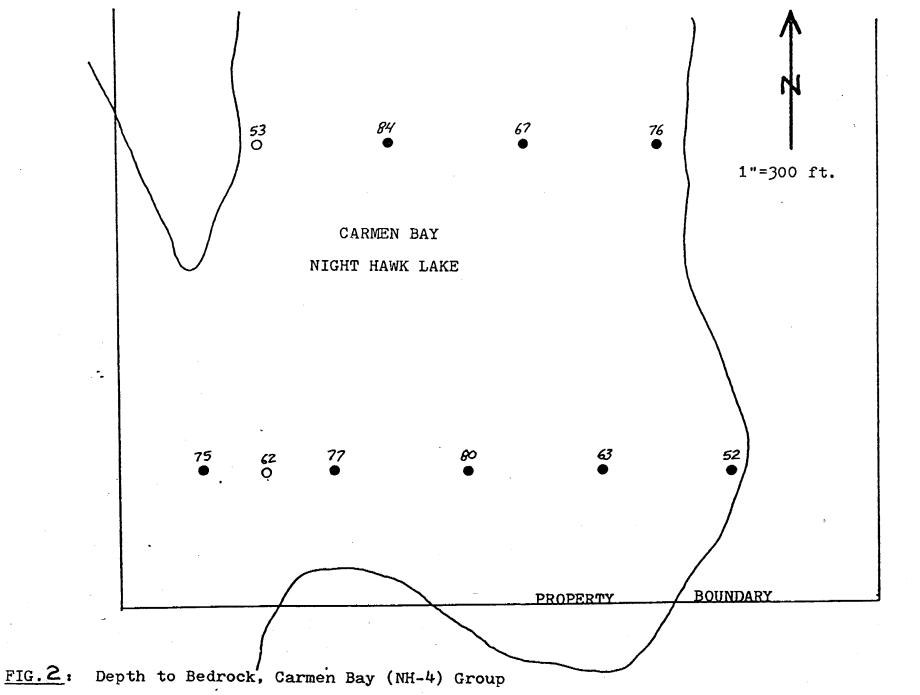
Sands, silts or clays, where sampled over bedrock do not represent

in any way the chemistry of the nearby bedrock. Their chemical composition has been greatly modified and some of the components have been derived from distant sources. Therefore, these sediments cannot be used effectively in evaluating the bedrock potential of a small area such as a normal group of claims.

Vale R. Fyke



W.O. KARVINEN & ASSOCIATES LTD.



reached bedrock

o did not reach bedrock

W.O. KARVINEN & ASSOCIATES LTD.

	Sample No.	Coordinates		Bedrock		Till Descrip				Nahan
	NH4-1	N-line goof	hole (ft) 52.8	reached no	description	Color gray	Type Silt	Thickness		Notes
	NH4-2	N-line 400E		yes	_	gray	silt		poor	· ·
	NH4-3	N-line 800E	66.3	yes	- .	gray	modified		fair	
	NH4-3A	N-line 800E	67.3	yes	mafic volc.		modified		good	silty
	NH4-4	N-line 1200E	75.6	yes	mafic volc.	gray	clay		poor	little till
	NH4-5	S-line 1600E	51.8	yes		brown	sand		poor	
•	NH4-6	S-line 1200E	63.0	yes	mafic volc.	gray	silt		poor	clayey
	NH4-7	S-line 800E	79.5	yes	mafic volc.	gray	modified		good	
	NH4-7A	S-line 800E	73.5	yes	mafic volc.	gray	modified		good	•
	NH4-8	S-line 400E	77.2	yes	-	gray	lodgemen	t	good	
	NH4-9	S-line 000E	74.9	yes		gray	lodgemen	t	good	
	NH4-10	S-line 200E	61.7	no	<u> </u>	gray	silt		poor	
										,
							·	·		
	-		ا ۱			 			·	
			TABLE	= 1 - UKI	LLING STATI	3114				
	`									,
	·									
				•			,			
				·				•		

The state of the s

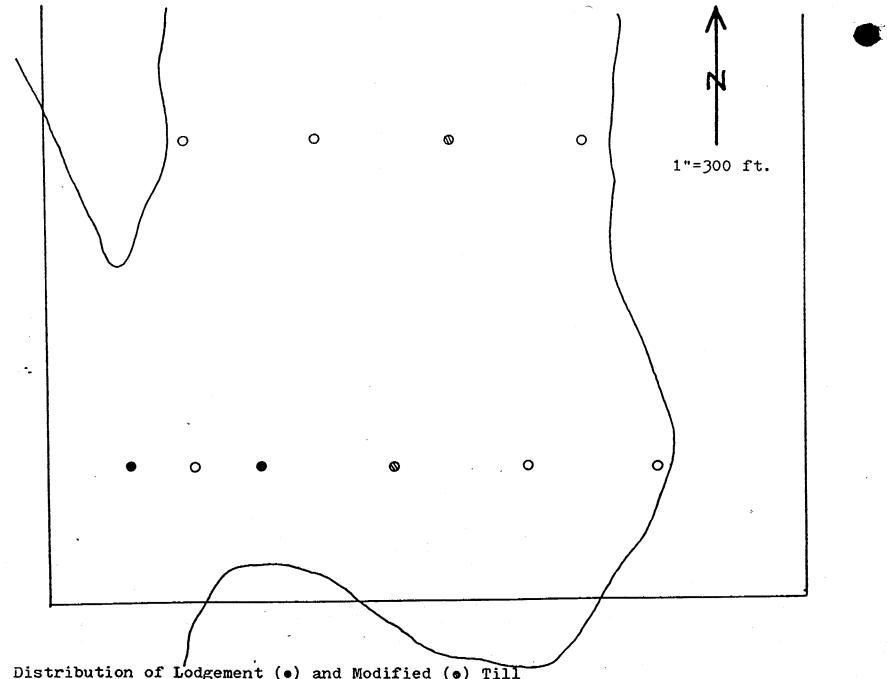


FIG. 3: Distribution of Lodgement (•) and Modified (•) Till and Sand/Silt/Clay (o), Carmen Bay (NH-4) Group.

W.O. KARVINEN & ASSOCIATES LTD.

OVERBURDEN DRILL LOG

Log No: NH4-1

Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date:

MARCH 27,1981

Location: N-line 000E

Log No: NH4-2

Project: CARMAN RAY (NH-4)

Township: CARMAN TOWNSHIP

Date: MARCH 27, 1981

Location: N-line 400E

						·
Depth	Sample No.	REMARKS		Depth	Sample No.	REMARKS
		,				•
		L.				
						· · · · · · · · · · · · · · · · · · ·
, .						
	NH4-1	Gray silt.				
16.1 m				•		
		Bedrock- not reached				
••						
			2	5.7 m	NH4-2	Gray silt.
						Bedrock - sample lost during retrieval.
		·		:		
						.•
						·
		·				:
		/				
-	·L	<u> </u>	, <u> </u>			

SCALE 1:200

OVERBURDEN DRILL LOG

Log No: <u>NH4-3</u>

Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date: MARCH 27, 1981

Location: N-line 800E

Log No: NH4-30

Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date: MARCH 27, 1981

Location: N-line 800E

rocation: N-IINe GOOF		Location: N-line oook				
Depth	Sample No.	REMARKS	Depth	Sample No.	REMARKS	
20.2 m	NH4-3	Modified till - gray	20.5 m	NH4-3A	Modified till - silty	
		Bedrock - sample lost during retrieval.		NH4-3A	* Bedrock - mafic volcanic	

SCALE 1:200

OVERBURDEN DRILL LOG

Log No: NH4-4

Project: <u>CARMAN BAY (NH-4</u>)

Township: CARMAN TOWNSHIP

MARCH 28,1981 Date:

Log No: NH4-5
Project: CARMAN BAY (NH-4) Township: <u>CARMAN TOWNSHIP</u>

MARCH 28, 1981 Date:

Location: N-line 1200E Location: S-line 1600E

Location: N-line 1200E				Location: S-line 1600E			
Depth	Sample No.	REMARKS		Depth	Sample No.	REMARKS	
De	Sar			15.8 m		Sand, brown	
				,		Bedrock - sample lost during retrieval.	
230m	NH4-4	Clay-gray. Little t	:11			·	
	NH4-4*	Bedrock - mafic volcanic.			,		
	j.			·			
		e e				· · · · · · · · · · · · · · · · · · ·	
		/					

SCALE 112.00

LOG OVERBURDEN DRILL

Log No: NH4-6

Project: <u>CARMAN BAY (NH-4)</u>

Township: CARMAN TOWNSHIP

Date: MARCH 28, 1981

Log No: NH4-7
Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date: MARCH 28, 1981

	Location: S-line 800E			
Sample No. Sample Sample No. Sample No.	EMARKS			
NH4-6 Silt - gray, clayey. NH4-6* Bedrock- mafic volcanic. 24.2 m NH4-7 Modifi	ed till - gray. ek- mafic cleanic.			

SCALE 1:200

OVERBURDEN DRILL LOG

Log No: NH4-70

Project: CARMAN BAY (NH-4)

Township: <u>CARMAN TOWNSHIP</u>

MARCH 28, 1981 Date:

Log No: <u>NH4-B</u> Project: <u>CARMAN BAY (NH-4)</u>

Township: CARMAN TOWNSHIP

Date: MARCH 30, 1981

Location: S-line 800E

Location: S-line 400E

REMARKS Second S	Location:	_	Location: S-line 400E			
NH4-7A Modified till - gray NH4-7A* Bedrock- Mafic NH4-8 Lodgement till - gray.	Depth Sample No.	REMARKS		Depth	Sample No.	REMARKS
	22.4m NH4-7A	Bedrock- Mafic		23.5 m	NH4-8	Lodgement till - gray.

SCALE 11200

OVERBURDEN DRILL LOG

Log No: <u>NH4-9</u>

Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date: MARCH 30, 1981

Log No: NH4-10
Project: CARMAN BAY (NH-4)

Township: CARMAN TOWNSHIP

Date: _MARCH 30, 1981

Location: S-line 000E			_	Location: S-line 200E				
Depth	Sample No.	REMARKS		Depth	Sample No.	REMARKS		
22.8%		Lodgement till- gray Bedrock - sample los during retrieval.		19.8 m		Silt- gray. Bedrock - not reached		

SCALE 1 : 200